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(54) MODIFIED MAJOR MITE
ALLERGEN AND ITS
PRODUCTION

(57) Abstract:

1 Asp Glu Val Asp Val Lys Asp Cys Ala Asn Asn Glu Ile Lys Lys Val
1 GAT CAA GTC GAT GTT AAA GAT TGT GCC AAC AAT CAA ATC AAA AAA GTA

PURPOSE: To obtain a new allergen useful as a therapeutic agent for allergic diseases due to mite allergens.

17 Met Val Asp Gly Cys His Gly Ser Asp Pro Cys Ile Ile His Arg Gly
49 ATG GTC GAT GGT TGC CAT GGT TCT GAT CCA TGC ATC ATC CAT GGT GGT

CONSTITUTION: This modified allergen is obtained by substituting cysteine residue in a major mite allergen Der fII with serine residue according to the genetic engineering. The gene capable of coding the major mite allergen Der fII has a DNA sequence expressed by the formula, etc., and is obtained from a culture prepared by culturing a prokaryote or a eucaryote transformed with a replication vector containing a gene capable of coding the modified Der fII in which the cysteine residue in the major mite allergen Der fII is substituted with the serine residue.

3B Lys Pro Phe Thr Leu Glu Ala Leu Phe Asp Ala Asn Glu Asn Thr Lys
97 AAA CCA TTC ACT TTG GAA GCC TTA TTC GAT GCC AAC CAA AAC ACT AAA

49 Thr Ala Lys Ile Glu Ile Lys Ala Ser Leu Asp Gly Leu Glu Ile Asp
145 ACC GCT AAA ATT GAA ATC AAA GCC AGC CTC GAT GGT CTT GAA ATT GAT

65 Val Pro Gly Ile Asp Thr Asn Ala Cys His Phe Met Lys Cys Pro Leu
193 GTT CCC GGT ATC GAT ACC AAT GCT TGC CAT TTT ATG AAA TGT CCA TTG

81 Val Lys Gly Glu Glu Tyr Asp Ala Lys Tyr Thr Trp Asn Val Pro Lys
241 GTT AAA GGT CAA CAA TAT GAT GCC AAA TAT ACA TGC AAT GTG CCG AAA

97 Ile Ala Pro Lys Ser Glu Asn Val Val Val Thr Val Lys Leu Val Gly
289 ATT GCA CCA AAA TCT GAA AAC GTT GTC GTT ACA GTC AAA CTT GTT GGT

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113 Asp Asn Gly Val Leu Ala Cys Ala Ile Ala Thr His Ala Lys Ile Arg
237 GAT AAT GGT GTT TTG GCT TGC GCT ATT GCT ACC CAC GCT AAA ATC GCT

129 Asp ***
386 GAT TAA